

ET 153 153778CS

CLAIMS

1. An electrical energy control system adapted for use with an electrical distribution panel, comprising:

(a) means for controlling a main circuit breaker that is adapted to turn said main circuit breaker off and on; and

(b) control means adapted for controlling said main circuit breaker.

2. An electrical energy control system adapted for use with an electrical distribution panel, comprising:

(a) means for controlling a main circuit breaker that is adapted to turn said main circuit breaker off and on;

(b) means for controlling a plurality of branch circuit breakers that is adapted to turn each of said plurality of branch circuit breakers off and on; and

(c) control means adapted for controlling said main circuit breaker and said plurality of branch circuit breakers and wherein said control means is adapted to sequentially turn on each of said branch circuit breakers.

3. The electrical energy control system of claim 2 wherein said control means includes a control panel, and wherein said control panel includes a circuit panel and wherein said circuit panel includes a microprocessor, a real-time clock, a battery, a display, and means adapted for programming said microprocessor, and wherein said microprocessor includes a main control line that is operatively attached to a solenoid and wherein said solenoid is adapted to turn said main circuit breaker on and off in accordance with a signal that is supplied by said microprocessor on said main control line.

4. The electrical energy control system of claim 3 wherein said microprocessor includes means for communicating with a remote location.

5. The electrical energy control system of claim 4 wherein said remote location includes a utility company.

6. The electrical energy control system of claim 5 wherein said microprocessor is adapted to be programmed by said utility company at which time and for what duration said main circuit breaker is to be in the off position.

7. The electrical energy control system of claim 6 wherein said system is adapted to communicate with said utility company to confirm compliance that said main circuit breaker was in the off position beginning at said time and lasting for said duration.

8. The electrical energy control system of claim 4 wherein said remote location includes an end-user of electricity supplied by a utility company.

9. The electrical energy control system of claim 2 wherein said control means is adapted to include a time delay after said control means has sequentially turned on one of said

branch circuit breakers prior to turning on another of said branch circuit breakers.

10. The electrical energy control system of claim 2 wherein said means for controlling a main circuit breaker includes a solenoid attached to said main circuit breaker.

11. The electrical energy control system of claim 2 wherein said means for controlling a plurality of branch circuit breakers includes a branch solenoid attached to each of said branch circuit breakers.

104510-10101
105101-01521001